

# TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104  
Phone No. (512) 322-2212 Fax No. (512) 463-6693

---

## PRODUCT EVALUATION

DR-559

Effective Date: October 1, 2012

Reevaluation Date: **July 2014**

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**.*

*This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.*

*This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code and the Texas Engineering Practice Act.*

**Architect Series Model 3 Aluminum Clad Wood Outswing Hinged Doors, Impact Resistant,**  
manufactured by

**Pella Corporation**

**102 Main Street**

**Pella, Iowa 50219**

**Telephone: (641) 621-1000**

### General Description:

System	Description	Label Rating	Design Pressure Rating
1	Architect Series Model 3 Aluminum Clad Wood Outswing Hinged Door	HGD-LC55 75 x 120 SHD-LC55 75 x 120 Missile Level D	+55/-55 psf

### Product Dimensions:

System	Overall Size	Panel Size (Active/Passive)	Daylight Opening Size
1	75" x 119.5"	35.441" x 117.125"	27.25" x 104.75"

### Hardware:

- 3-point lock assembly; located on the active panel.
- 2-point lock assembly; located on the passive panel.
- Strike plate; One (1) required; located on the passive panel astragal; Secured with three (3) No. 8 x  $\frac{3}{4}$ " screws.
- Lock strikes; Two (2) required (one (1) in the head and one (1) in the threshold at the sill); The head strike plate is secured with three (3) No. 8 x 3" screws. The sill strike plate is secured with three (3) No. 8 x 3" screws.
- Hinges; Eight (8) required (four (4) on each door panel); Secured to the door panel with three (3) No. 8 x 2" screws. Secured to the door jamb with two (2) No. 12 x  $\frac{3}{4}$ " screws and one (1) No. 12 x 2  $\frac{1}{2}$ " screw.

**Product Identification (Certification Agency Label on Door):**

System		
1	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Pella Corporation
	Product Name	Out-swing French Door (AP) Active/Passive
	Test Standards	ANSI/AAMA/NWWDA 101/I.S.2-97; AAMA/WDMA/CSA 101/I.S.2/A440-05; ASTM E 1886, ASTM E 1996, Missile Level D

**Impact Resistance:**

Impact Resistant	Requirement
Yes	These products satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the <b>Inland I</b> and <b>Seaward zone</b> . The assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded.

**Installation:**

**Screw Installation:** The wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. Along the head and sill, three (3) No. 8 x 3" screws are required through the strike plate. Along the head, No. 10 x 3 1/2" screws are located approximately 6 inches from each corner and 6 inches on either side of the mid span. Along the sill, No. 8 x 3" screws are located approximately 6 inches from each corner and 6 inches on either side of the mid span. Along the side jambs, No. 10 x 3 1/2" screws are spaced approximately 6 inches from each corner and approximately 17 7/8 inches on center. Along the side jambs, each hinge is secured with one (1) No. 12 x 2 1/2" screw. The fasteners shall be long enough to penetrate a minimum of 1 1/2 inches into the wall framing.

**Clip Installation:** The wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. The door is secured to the wall framing at the frame head and side jambs with 1.875" x 8.187" x 0.052" galvanized steel installation clips. The clips are secured to the door frame with two (2) No. 6 x 3/4" screws and to the wall framing with two (2) No. 6 screws. Along the head, the clips are spaced approximately 6 inches from each corner and 6 inches on either side of the mid span. Along the side jambs, the fasteners are spaced approximately 6 inches from each corner and approximately 17 7/8 inches on center. The sill is secured to the floor framing with No. 10 x 3" screws located approximately 6 inches from each corner and 6 inches on either side of the mid span. Along the head and sill, three (3) No. 8 x 3" screws are required through the strike plate. Along the side jambs, each hinge is secured with one (1) No. 12 x 2 1/2" screw. The fasteners shall be long enough to penetrate a minimum of 1 1/2 inches into the wall framing.

**Note:** The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.